



TRABUCO CANYON WATER DISTRICT ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | MARCH 4, 2020

DIRECTORS PRESENT

Edward Mandich, Committee Chair
Stephen Dopudja, Committee Member

STAFF PRESENT

Fernando Paludi, General Manager
Michael Perea, District Secretary
Lorrie Lausten, Principal Engineer
Gary Kessler, Water Department Superintendent
Jason Stroud, Maintenance Department Superintendent
Karen Warner, Senior Accountant
Lisa Sangi, Administrative Assistant

PUBLIC PRESENT

Chris Webber, Hunsaker & Associates

CALL MEETING TO ORDER

Director Mandich called the March 4, 2020 Engineering/Operational Committee Meeting to order at 7:00 AM.

VISITOR PARTICIPATION

No comments were received.

ORAL COMMUNICATION

No comments were received.

COMMITTEE MEMBER COMMENTS

Director Mandich moved agenda item 11 to the top of the agenda.

REPORT FROM THE GENERAL MANAGER

Mr. Paludi expressed his gratitude to the Committee for accommodating the Conference Room

ITEM 1: ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP

Mr. Paludi presented the Engineering/Operational Committee Meeting Recap for Committee review in accordance with the agenda.

RECOMMENDED ACTION

The Committee recommended that the Engineering/Operational Committee Meeting Recap be forwarded to the Board of Directors for approval (Consent Calendar).

ITEM 11: SADDLEBACK MEADOWS DEVELOPMENT (181 DUs) – HARRIS GRADE RESERVOIR FEASIBILITY STUDY

Ms. Lausten provided a brief update on this project for Committee review, and she reported that District staff requested proposals for the preparation of a feasibility study for improvements to the Harris Grade Reservoirs to accommodate the development. Ms. Lausten reported that the District received three (3) proposals, and she

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provided a proposal comparison sheet for Committee review. Discussion occurred concerning the proposals. Ms. Lausten recommended Tetra Tech for the preparation of the feasibility study based on firm reputation and total allocated project hours. Ms. Lausten added that District staff is currently discussing cost sharing options with the developer. Mr. Webber provided a brief development update to the Committee.

RECOMMENDED ACTION

The Committee received the information concerning the matter and recommended forwarding the Harris Grade Reservoir Feasibility Study proposals to the Board of Directors (Action Calendar).

ITEM 2: AMENDMENT NO. 9 TO THE SANTIAGO AQUEDUCT COMMISSION JOINT POWERS AGREEMENT

Mr. Paludi presented this matter for Committee review and discussion. Mr. Perea provided a brief update on certain terms and changes in the proposed amendment to the Joint Powers Agreement to the Committee. Mr. Perea added that the Commission approved the amendment subject to non-substantive changes.

RECOMMENDED ACTION

The Committee recommended the Board of Directors approve Amendment No. 9 to the Santiago Aqueduct Commission Joint Powers Agreement, subject to non-substantive changes (Action Calendar).

ITEM 3: CONTRACT CHANGE ORDER NO. 3 TO RIDGELINE BOOSTER PUMP STATION IMPROVEMENTS AND CAPACITY INCREASE PROJECT

Mr. Paludi presented this project for Committee review, and he commended the work completed to date by the contractor. Ms. Lausten provided a project update for the Committee, and she reported that Pacific Hydrotech has submitted a contract change order for additional work outside the original scope of work to replace the louvers with masonry block where the diesel driven pump was removed. Ms. Lausten added that District staff has discussed with Pacific Hydrotech installing an improved security fence consistent with the original design prior to removal due to project value engineering which will result in another contract change order that will be presented to the Board of Directors for their consideration.

RECOMMENDED ACTION

The Committee recommended the Board of Directors approve Contract Change Order No. 3 to Pacific Hydrotech Corporation in the amount of \$3,020 (Action Calendar).

ITEM 4: DOVE AND ROBINSON RANCH RECYCLED WATER PUMP STATION REHABILITATION PROJECT

Mr. Paludi presented this project update for Committee review, and he mentioned that there was no action recommended for this item. Ms. Lausten provided a brief project update and reviewed the tentative project schedule. Discussion occurred concerning project schedule timeline for completion.

RECOMMENDED ACTION

The Committee received the information concerning the matter. No action taken.

ITEM 5: BELL CANYON SEWER LIFT STATION REHABILITATION PROJECT

Mr. Paludi presented this project update for Committee review, and he mentioned that this was an informational item only. Ms. Lausten reported that JIG Consultants has completed the ninety-five (95) percent design drawings, and she reviewed the design drawings with the Committee. Ms. Lausten reviewed the project schedule with the Committee, and she presented engineer's project cost estimate for Committee review. Discussion occurred concerning certain proposed facility improvements.

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RECOMMENDED ACTION

The Committee received the information concerning the matter. No action taken.

ITEM 6: GROUNDWATER RESOURCES FEASIBILITY STUDY

Mr. Paludi presented this project update for Committee review, and he mentioned that this matter was reviewed with the Board of Directors at the Regular Board Meeting. Ms. Lausten reported that the Woodard & Curran PowerPoint presentation was included as an exhibit with the staff report for Committee consideration. Discussion occurred on the information presented by Woodard & Curran to date, and the potential costs associated with continued evaluation. The Committee recommended forwarding the study to the Board for receipt and file, and to continue to evaluate alternative options.

RECOMMENDED ACTION

The Committee recommended the Board of Directors receive and file the Woodard & Curran Municipal Well Feasibility Study Plan Technical Memorandum (Action Calendar).

ITEM 7: RATIFICATION OF PUMP PURCHASES FROM TEKDRAULICS FOR HERITAGE SEWER LIFT STATION PUMP REPLACEMENT PROJECT

Mr. Paludi presented this project for Committee consideration, and he mentioned that this matter required action by the Committee. Mr. Perea reported that District staff have identified the pumps at Heritage Sewer Lift Station for replacement consistent with the Fiscal Year 2020/2021 Capital Improvement Program (CIP). Mr. Perea reviewed the proposal from Tekdraulics with the Committee, and he reported that this procurement is a sole source purchase as Tekdraulics is the sole distributor for Cornell pumps. Mr. Perea recommended the Committee approve the purchase of the pumps and the Board of Directors ratify the purchase due to long lead fulfillment timeline. Discussion occurred to have three (3) new pumps at this station, and use existing pumps as floaters.

RECOMMENDED ACTION

The Committee approved and recommended the Board of Directors ratify the purchase of three (3) replacement pumps from Tekdraulics for Heritage Sewer Lift Station in the amount of \$82,424 (Action Calendar).

ITEM 8: RATIFICATION OF CONTRACT WITH FERREIRA CONSTRUCTION FOR REHABILITATION OF O'NEILL PARK UPPER MESA METER CONNECTION

Mr. Paludi presented this matter for Committee review, and he commented that this matter required action by the Committee. Ms. Lausten reported that the County of Orange was currently repairing a six-inch (6") water service at O'Neil Park, and she mentioned that District staff recommends replacing the associated pressure reducing valve, meter, and appurtenances in the vault due to reaching end of life and corrosion. Ms. Lausten added that District staff requested multiple proposals for the repair work, and she recommended the Committee approve Ferreira Construction's repair proposal and recommend ratification by the Board of Directors. Discussion occurred concerning ownership of facility and associated cost recovery.

RECOMMENDED ACTION:

The Committee approved and recommended the Board of Directors ratify a Construction Contract with Ferreira Construction for O'Neill Park PRV/Metering Vault Rehabilitation in the amount of \$44,533 (Action Calendar).

ITEM 9: OTHER ENGINEERING AND OPERATIONS PROJECTS

1. Urban Water & Stormwater Runoff Conveyance Structure to Dove Lake (Spillway)

Ms. Lausten provided an updated project design for Committee review and comment, and she reported that a project kickoff meeting was held the prior day.

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2. SCADA Upgrade Project – Radio Field Study and Software Evaluation

Ms. Lausten reported that District staff met with TESCO Controls to further evaluate the radio field study results and telemetry system antenna placement. Discussion occurred concerning the project schedule and association challenges.

3. Dam Inspection Services – Trabuco Dam and Dove Dam

Ms. Lausten provided a brief project update.

4. El Toro Lift Station Improvements and Irvine Ranch Water District Buyout Proposal

Mr. Paludi provided a brief project update, and he mentioned that District staff is currently working with Hazen & Sawyer on the facility evaluation.

5. Other Projects

There were no other projects discussed.

RECOMMENDED ACTION

The Committee received the information concerning the matter. There was no action taken.

ITEM 10: PALOMA SQUARE DEVELOPMENT (120 DUs)

Mr. Paludi presented this matter for Committee review, and he reported that District staff was currently working with Grover and Associates on the parking study. Discussion occurred concerning certain features of the proposed development design.

RECOMMENDED ACTION

The Committee received the information concerning the matter. There was no action taken.

ITEM 12: WATER SYSTEM UPDATES

Mr. Kessler reviewed the projects and repairs for February 2020, and he provided the additional highlights:

1. Water Operations staff changed out two (2) fire hydrants in the Dove Canyon Community.
2. Water Operations staff flushed one hundred-four (104) hydrants in the Dove Canyon Community.
3. Water Operations staff worked with Ferreira Construction to repair a leak to Reservoir 1.
4. Water Operations staff repaired the road to Reservoir One.
5. Water Operations staff rebuilt flow control valves on all three booster pumps at Dimension Water Treatment Plant.

Mr. Kessler mentioned that water was not purchased at the intertie during hydrant flushing. Water levels in the Rose and Lang Wells have dropped. The final results of MWDOC's Leak Detection for TCWD included sixty-six (66) miles of pipeline checked, and 16 leaks found.

RECOMMENDED ACTION

The Committee received the status update. There was no action taken.

ITEM 13: WASTEWATER SYSTEM UPDATES

Mr. Perea reviewed the projects and repairs for February 2020, and he provided the additional highlights:

1. Wastewater Operations staff continued with the Recycled Water System Inspections for the Trabuco Highlands Community Association.

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2. Wastewater Operations staff replaced East Sequencing Batch Reactor (SBR) Hoffman Blower Motor at the Robinson Ranch Wastewater Treatment Plant (WWTP).
3. Wastewater Operations staff ordered, received, and replaced a one-inch (1") reclaimed water flush line at the WWTP.
4. Wastewater Operations staff coordinated with OC Pumping to pump out the raw wastewater at The Oaks at Trabuco wet well twice a week.

Mr. Perea reviewed the Monthly Wastewater System Operations Summary.

RECOMMENDED ACTION

The Committee received the status update. There was no action taken.

ITEM 14: MAINTENANCE DEPARTMENT UPDATES

Mr. Stroud reviewed the projects and repairs for February 2020, and he provided the additional highlights:

1. Maintenance Department staff continuing rehab at El Toro Sewer Lift Station.
2. Maintenance Department staff had an emergency repair at Booster One; replaced #6 booster motor.
3. Maintenance Department staff assisted Wastewater Operations Department with recycled water supply pipeline for SBRs.
4. Maintenance Department staff installed an Uninterrupted Power Supply (UPS) at the Administration Building.
5. Maintenance Department staff installed a new pump and conducted a soft start at the Dove Creek Dry Season Recovery Pump Station.

RECOMMENDED ACTION

The Committee received the status update. There was no action taken.

ITEM 15: OTHER MATTERS/REPORTS

None

RECOMMENDED ACTION

There was no action taken.

ADJOURNMENT

Director Mandich adjourned the March 4, 2020 Engineering/Operational Committee Meeting at 8:26 AM.